

IN THE DRAWINGS:

Please amend Figs. 1-3b as indicated in red on the attached copies.

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 17, line 6 with the following paragraph. A clean copy of the replacement paragraph is as follows:

B1  
The fluid pressure and occlusion detection systems described in U.S. provisional patent application serial no. 60/243,392, (attorney docket no. 0059-0391-PROV) filed October 26, 2000 or in copending U.S. patent application serial no. 09/428,411, filed October 28, 1999, (both of which are incorporated herein by reference in their entireties) or known pressure switch detectors, such as those shown and described with reference to FIGs. 1 and 2, can be used to detect the fluid back pressure associated with the bottoming out of the plunger slide against the piston. A high pressure trigger point of such a pressure switch or occlusion detection system can be set at a point above the relatively flat cross thread force as shown in FIG. 13b. Alternatively, the ramping or the profiles of such back pressure forces can be monitored. When an appropriate limit is reached, the pump system electronics can send a signal to stop the pump motor. Thus the pump drive system is able to automatically detect when the plunger slide has bottomed out and stop the pump motor from advancing the plunger slide.